

# CURRICULUM VITAE<sup>1</sup>

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Professor of Mathematics  
California State University, Bakersfield  
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## Education (degrees, dates, universities)

- Ph. D. in mathematics; 1991; Wesleyan University, Middletown, CT 06459
- B. S. in mathematics and physics; 1985; Michoacán University, Mexico

## Career/Employment (employers, positions and dates)

1. California State University - Louis Stokes Alliance for Minority Participation, California Central Region Coordinator; September 1, 2005-present.
2. California State University, Bakersfield; Bakersfield, CA.  
Alliance for Minority Participation Campus Coordinator; September 1, 2001-present.  
Chairman, Mathematics Department; January 1 - June 30, 2007, September 1, 2008 - August 31, 2011.  
Professor of Mathematics; September 1, 1999-present.  
Associate Professor of Mathematics; September 1, 1995–August 31, 1999.  
Assistant Professor of Mathematics; September 1, 1991–August 31, 1995.
3. National Autonomous University of Mexico, Mexico City, Mexico  
Visiting Professor of Mathematics; September 1, 1996–August 31, 1997.
4. Guadalajara University, Guadalajara, Mexico  
Visiting Professor of Mathematics; February 1–August 31, 1997.
5. Wesleyan University, Middletown, CT.  
Visiting Assistant Professor of Mathematics; January 20–May 31, 1991.

## Specialization

1. Main Field: Topological groups, general topology.
2. Current research interests: Weak topologies.

## Honours, Awards, Fellowships

1. National Science Foundation, USA: North-American Fellowship (\$25,000), for research on topological groups, academic years 1995-1996 and 1996-1997.
2. *Consiglio Nazionale delle Ricerche*, Italy: Visiting Fellowship (Lir. 3,000,000) for research on topological groups, November 1997.
3. California State University: Mathematics Preparation Initiative Plan (\$41,150), to increase the number of mid-school teachers with a Supplementary Authorization in Mathematics in Kern County, 1999.

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<sup>1</sup>September 4, 2008

4. California State University, Bakersfield: Louis Stokes Alliance for Minority Participation Coordinator, 2001-Present.
5. CSUB Outstanding Research Professor Award, 2001-2002.

### Service to the Profession

1. Editor. (i) Proceedings of the II Ibero-American Conference, Topology and its Applications, **98** (1999), (ii) Proceedings 2003 Summer Conference on General Topology and its Applications, Topology Proceedings, **28** (2), 2004.
2. Conference Organizer:  
(i) *II Ibero-American Conference in Topology and its Applications*, Morelia, Mexico, March 20-22, 1997; (ii) *13th Summer Conference on General Topology and its Applications*, Mexico City, Mexico, June 24-27, 1998; (iii) *I Joint Meeting Japan-Mexico in Topology and its Applications*, Morelia, Mexico, July 7-10, 1999; (iv) *2003 Summer Conference on General Topology and its Applications*, Washington DC, July 8-12, 2003.
3. Referee:  
(i) Topology and its Applications, (ii) Rocky Mountain Journal of Mathematics, (iii) The New York Academy of Sciences, (iv) Journal of Pure and Applied Algebra, (v) Proceedings of the American Mathematical Society, (vi) Proceedings of the London Mathematical Society, (vii) Topology Proceedings, (viii) Fundamenta Mathematicæ.
4. Reviewer, *Mathematical Reviews*, *Zentralblatt*.

**Thesis Supervised:** *Todo grupo abeliano no numerable acepta una topología de grupo no normal*, Master of Science in Applied Mathematics Thesis by Ms. Edith Velasco Vázquez del Mercado, Universidad de Guadalajara, Guadalajara, Mexico, December 16, 1998.

### Communications and Talks

1. 17 communications to scientific meetings, and 26 invited seminar talks; given in Curaçao, Czech Republic, Italy, Mexico, Spain, and USA.
2. Main speaker, IV Ibero-American Conference in Topology and its Applications, Coimbra, Portugal, April, 2001.
3. Invited speaker, II Joint Meeting Japan-Mexico in Topology and its Applications, Matsue, Japan, June 24-29, 2002.
4. Invited speaker, 40th Spring Topology and Dynamical Systems Conference, Greensboro, NC, March 23-25, 2006.

**Publications.** 30 refereed articles:

30. *Uncountable products of determined groups need not be determined*. J. Math. Anal. Appl. **348** (2008), 262-270; <http://dx.doi.org/10.1016/j.jmaa.2008.07.065>.
29. *Three questions in topological groups*. In: Open Problems Collected from the Spring Topology and Dynamical Systems Conference 2006, edited by Jerry E. Vaughan, Topology Proceedings 31 (1) (2007), 393-395.

28. *On Aumann's Theorem that the sphere does not admit a mean*, (with Marian Turzański), Acta Univ. Carolin. Math. Phys. **46** (2) (2005), 77-82. MR. 2006h:26039.
27. *Making group topologies with, and without, convergent sequences*, (with W. W. Comfort and S. U. Raczkowski), Applied General Topology **7** (1) (2006), 109-124.
26. *Group duality with the topology of precompact convergence* (with S. Hernández), J. Math. Anal. Appl., **303** (2005), 274-287. MR. 2005k:22004. Zbl. 1062.22001.
25. *The dual group of a dense subgroup* (with W. W. Comfort and S. U. Raczkowski), Czechoslovak Mathematical Journal, **54** (129) (2004), 509-533. MR. 2005h:22001. Zbl. 1080.22500.
24. *A Mackey-Arens theorem for topological Abelian groups* (with F. G. Bonales and R. Vera M.), Boletín de la Sociedad Matemática Mexicana, **3** (9) (2003), pp. 79-88. MR. 2004f:22002. Zbl. 1045.22001.
23. *Concerning the dual group of a dense subgroup* (with W. W. Comfort and S. U. Raczkowski), pp. 23-35, in: "Proceedings of the Ninth Prague Topological Symposium" (2001). Posted at: <http://at.yorku.ca/p/p/a/e/00.htm> . Zbl. 1007.22005
22. *A characterization of Pontryagin-van Kampen duality for complex locally convex spaces* (with F. G. Bonales and R. Vera M.), Communications in Algebra, **30** (4) (2002), pp. 1715-1724. MR. 2002m:46002. Zbl. 1017.46001
21. *Some open questions on topological groups* (with W. W. Comfort, S. Hernández and D. Remus), pp. 57-76 in: Research and Exposition series, Vol 24, Heldermann Verlag Berlin. MR: 2002g:22003. Zbl. 1014.22004
20. *A characterization of Pontryagin-van Kampen duality for locally convex spaces* (with F. G. Bonales and R. Vera M.), Topology and Applications, **121** (2002), pp. 75-89. MR: 2003c:46006. Zbl. 1017.46001.
19. *Duality of totally bounded Abelian groups* (with S. U. Raczkowski), Boletín de la Sociedad Matemática Mexicana, **3** (7) (2001), pp. 1-12. MR: 2002g:22006. Zbl. 1007.22004
18. *Cross sections and homeomorphism classes of Abelian groups equipped with the Bohr topology* (with W. W. Comfort and S. Hernández), Topology and Applications, **115** (2001), pp. 215-233. MR: 2002i:22006, Zbl. 0986.22001.
17. *Suitable sets in some topological groups* (with D. Dikranjan), J. Group Theory, **3** (2000), pp. 293-321. MR: 2002i:22001, Zbl. 0972.22002.
16. *The Bohr topology on Moore groups* (with D. Remus), Topology and its Applications, **97** (1/2) (1999), pp. 85-98. MR: 2001j:22005, Zbl. 933.22008.
15. *Epi-reflective properties of the Bohr compactification* (with W. W. Comfort and S. Hernández), "Proceedings, Symposium on Categorical Topology, University of Cape Town, South Africa", 1999, 67-74. MR: 2000i:54061. Zbl. 992.22003
14. *Suitable sets in products of topological groups and in groups equipped with the Bohr topology* (with A. Tomita), LNPAM 201, Marcel Dekker, 1998, pp. 389-402. MR: 99m:22002, Zbl. 913.22003.
13. *Locally convex spaces as subgroups of products of locally compact Abelian groups* (with D. Remus), Math. Japonica, **46** (2) (1997), 217-222. MR: 98f:46003, Zbl. 892.22006.

12. *Correction to the paper “The Bohr compactification, modulo a metrizable subgroup”* (with W. W. Comfort and T.-S. Wu), *Fund. Math.* **152** (1997), 97-98. MR: 98b:22005, Zbl. 872.22001.
11. *Relating a locally compact Abelian group to its Bohr compactification* (with W. W. Comfort and S. Hernández), *Advances in Mathematics*, **120** (2) (1996), 322-344. MR: 97k:22005, Zbl. 863.22004.
10. *Locally pseudocompact groups* (with W. W. Comfort), *Topology and Applications*, **62** (3) (1995), 263-281. MR: 96c 22002, Zbl. 828.22003.
9. *Every uncountable Abelian group admits a non-normal group topology*, *Proc. Amer. Math. Soc.*, **122** (3) (1994), 907-909. MR: 95a 22002, Zbl. 856 22003.
8. *Normality and the weak topology on a locally compact Abelian group*, *Annals of the New York Academy of Sciences*, **728** (1994), 290-295. MR: 98m:22004, Zbl. 914.22006.
7. *Determining a weakly locally compact group topology by its system of closed subgroups* (with W. W. Comfort and T. Soundararajan), *Annals of the New York Academy of Sciences*, **728** (1994), 248-261. MR: 99d:22002, Zbl. 921.22001.
6. *Abelian groups which satisfy Pontryagin duality need not respect compactness* (with D. Remus), *Proc. Amer. Math. Soc.*, **117** (4) (1993), 1195–1200. MR: 93e 22009, Zbl. 826.22002.
5. *The Bohr compactification, modulo a metrizable subgroup* (with W. W. Comfort and T.-S. Wu), *Fund. Math.* **143** (1993), 119–136. MR: 94i 22013, Zbl. 812.22001.
4. *Products of locally pseudocompact topological groups*, *Annals of the New York Academy of Sciences*, **659** (1992), 182–187. MR: 98k 22010.
3. *Continuity, boundedness, connectedness and the Lindelöf property for topological groups*, *J. Pure and Applied Algebra*, **70** (1991), 199–210. MR: 92h 22009, Zbl. 724.22003.
2. *Pseudocompactness on groups*, “General Topology and Applications; Fifth Northeast Conference”. Marcel Dekker, New York–Basel–Hong Kong (1991), 369–378. MR: 93c 22005, Zbl. 777.22003.
1. *Remarks on a theorem of Glicksberg* (with W. W. Comfort), “General Topology and Applications; Fifth Northeast Conference”. Marcel Dekker, New York–Basel–Hong Kong (1991), 25–34. MR: 92k 54042, Zbl. 777.22002.

Fluent in Spanish, semi-fluent in Italian and Portuguese, can read French and German.